# **Milk Production**



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### **July Milk Production up 2.1 Percent**

**Milk production** in the 24 major States during July totaled 18.3 billion pounds, up 2.1 percent from July 2020. June revised production, at 18.1 billion pounds, was up 3.2 percent from June 2020. The June revision represented a decrease of 1 million pounds or less than 0.1 percent from last month's preliminary production estimate.

**Production per cow** in the 24 major States averaged 2,035 pounds for July, 11 pounds above July 2020.

**The number of milk cows** on farms in the 24 major States was 8.99 million head, 136,000 head more than July 2020, but 3.000 head less than June 2021.

#### July Milk Production in the United States up 2.0 Percent

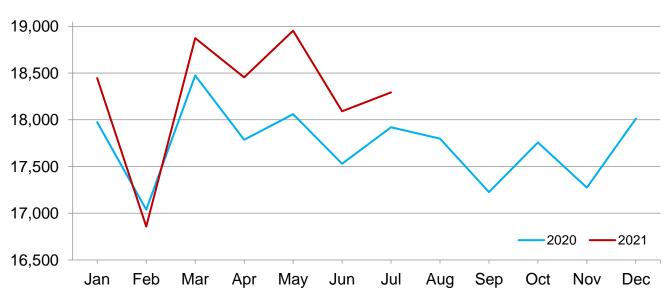
Milk production in the United States during July totaled 19.1 billion pounds, up 2.0 percent from July 2020.

**Production per cow** in the United States averaged 2,015 pounds for July, 14 pounds above July 2020.

**The number of milk cows** on farms in the United States was 9.50 million head, 128,000 head more than July 2020, but 3,000 head less than June 2021.

# Monthly Milk Production - 24 Selected States





### Milk Cows and Production by Quarter - United States: 2020-2021

[May not add due to rounding. Blank data cells indicate estimation period has not yet begun]

	Milk cows 1		Milk pe	r cow <sup>2</sup>	Milk production <sup>2</sup>		
Quarter	2020	2021	2020	2021	2020	2021	Change from 2020
	(1,000 head)	(1,000 head)	(pounds)	(pounds)	(million pounds)	(million pounds)	(percent)
January-March	9,378 9,364 9,380 9,429	9,458 9,503	5,990 5,988 5,908 5,892	6,003 6,118	56,174 56,070 55,419 55,557	56,776 58,139	1.1 3.7
Annual	9,388		23,777		223,220		

<sup>&</sup>lt;sup>1</sup> Includes dry cows. Excludes heifers not yet fresh. <sup>2</sup> Excludes milk sucked by calves.

### Milk Cows and Production by Month - 24 Selected States: 2020-2021

[May not add due to rounding. Blank data cells indicate estimation period has not yet begun]

	Milk cows 1		Milk pe	r cow <sup>2</sup>	Milk production <sup>2</sup>			
Month	2020 2021		2020 2021		2020	2021	Change from 2020	
	(1,000 head)	(1,000 head)	(pounds)	(pounds)	(million pounds)	(million pounds)	(percent)	
January February March April May June July August September October November December	8,837 8,848 8,861 8,855 8,838 8,834 8,857 8,857 8,877 8,897 8,914 8,923	8,934 8,947 8,961 8,985 8,996 8,993 8,990	2,034 1,926 2,085 2,009 2,044 1,984 2,024 2,010 1,941 1,996 1,938 2,019	2,065 1,884 2,106 2,054 2,107 2,012 2,035	17,974 17,038 18,474 17,787 18,061 17,530 17,919 17,799 17,226 17,758 17,274 18,012	18,446 16,858 18,873 18,454 18,953 18,091 18,293	2.6 -1.1 2.2 3.7 4.9 3.2 2.1	
Annual	8,866		24,008		212,852			

<sup>&</sup>lt;sup>1</sup> Includes dry cows. Excludes heifers not yet fresh. <sup>2</sup> Excludes milk sucked by calves.

## Estimated Milk Cows and Production by Month - United States: 2020-2021

[May not add due to rounding. Blank data cells indicate estimation period has not vet begun]

	Milk cows 1		Milk pe	r cow <sup>2</sup>	Milk production <sup>2</sup>			
Month	2020 2021		2020 2021		2020 2021		Change from 2020	
	(1,000 head)	(1,000 head)	(pounds)	(pounds)	(million pounds)	(million pounds)	(percent)	
January	9,365 9,377 9,391 9,377 9,360 9,355 9,372 9,374 9,395 9,414 9,432 9,442	9,445 9,458 9,472 9,497 9,509 9,503 9,500	2,016 1,908 2,066 1,993 2,027 1,968 2,001 1,988 1,919 1,976 1,919 1,997	2,047 1,868 2,088 2,035 2,088 1,995 2,015	18,877 17,895 19,402 18,684 18,972 18,414 18,756 18,632 18,031 18,603 18,103 18,851	19,330 17,666 19,780 19,330 19,855 18,954 19,140	2.4 -1.3 1.9 3.5 4.7 2.9 2.0	

<sup>&</sup>lt;sup>1</sup> Includes dry cows. Excludes heifers not yet fresh.

<sup>&</sup>lt;sup>2</sup> Excludes milk sucked by calves.

Milk Cows and Production - 24 Selected States: July 2020 and 2021

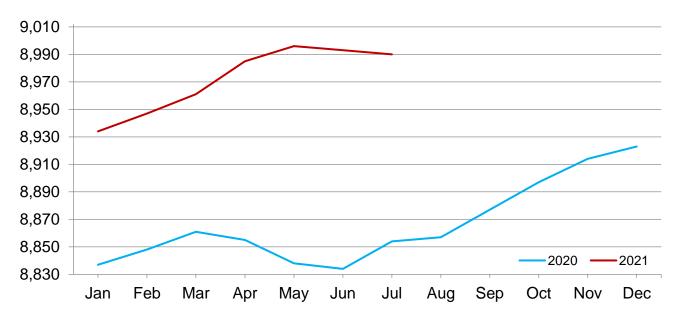
[May not add due to rounding]

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	Milk c	cows 1	Milk pe	er cow <sup>2</sup>	Milk production <sup>2</sup>			
State	2020	2021	2020	2021	2020	2021	Change from 2020	
	(1,000 head)	(1,000 head)	(pounds)	(pounds)	(million pounds)	(million pounds)	(percent)	
Arizona	200 1,721 198 111 81 645 83 188	199 1,721 202 110 82 654 83 197	1,935 2,015 2,235 1,650 1,755 2,210 1,745 1,950	1,950 2,000 2,225 1,655 1,805 2,195 1,770 1,970	387 3,468 443 183 142 1,425 145 367	388 3,442 449 182 148 1,436 147 388	0.3 -0.7 1.4 -0.5 4.2 0.8 1.4 5.7	
Iowa Kansas	218 169	228 172	2,040 1,980	2,055 1,990	445 335	469 342	5.4 2.1	
Michigan	428 445 326 626 254 124 482 137 590 95	445 462 321 630 260 126 475 158 625 97	2,310 1,940 2,015 2,075 1,870 1,815 1,795 1,930 2,065 1,985	2,320 1,945 2,000 2,120 1,870 1,805 1,800 1,955 2,090 2,010	989 863 657 1,299 475 225 865 264 1,218 189	1,032 899 642 1,336 486 227 855 309 1,306 195	4.3 4.2 -2.3 2.8 2.3 0.9 -1.2 17.0 7.2 3.2	
Vermont	122 74 280 1,257	120 73 272 1,278	1,770 1,660 2,120 2,070	1,825 1,650 2,035 2,130	216 123 594 2,602	219 120 554 2,722	1.4 -2.4 -6.7 4.6	
24-State Total	8,854	8,990	2,024	2,035	17,919	18,293	2.1	

<sup>&</sup>lt;sup>1</sup> Includes dry cows. Excludes heifers not yet fresh. <sup>2</sup> Excludes milk sucked by calves.

# **Monthly Milk Cows - 24 Selected States**

Thousand head



## Milk Cows and Production - 24 Selected States: June 2020 and 2021

[May not add due to rounding]

	Milk c	ows 1	Milk pe	r cow <sup>2</sup>		Milk production <sup>2</sup>	
	2020	2021	2020	2021	2020	2021	Change from 2020
	(1,000 head)	(1,000 head)	(pounds)	(pounds)	(million pounds)	(million pounds)	(percent)
Arizona	200	199	2,015	2,035	403	405	0.5
California	1,721	1,721	1,950	2,015	3,356	3,468	3.3
Colorado	197	203	2,150	2,145	424	435	2.6
Florida	111	110	1,675	1,690	186	186	-
Georgia	81	82	1,765	1,830	143	150	4.9
Idaho	640	654	2,105	2,130	1,347	1,393	3.4
Illinois	83	83	1,795	1,800	149	149	-
Indiana	180	197	2,000	2,000	360	394	9.4
lowa	217	228	2,030	2,020	441	461	4.5
Kansas	168	173	1,915	1,920	322	332	3.1
Michigan	428	445	2,280	2,270	976	1,010	3.5
Minnesota	442	462	1,915	1,895	846	875	3.4
New Mexico	327	326	1,980	2,070	647	675	4.3
New York	626	630	2,040	2,085	1,277	1,314	2.9
Ohio	253	260	1,840	1,840	466	478	2.6
Oregon	124	126	1,765	1,755	219	221	0.9
Pennsylvania	482	475	1,775	1,780	856	846	-1.2
South Dakota	136	157	1,895	1,910	258	300	16.3
Texas	590	624	2,030	2,055	1,198	1,282	7.0
Utah	96	97	1,955	1,985	188	193	2.7
Vermont	123	119	1,740	1,805	214	215	0.5
Virginia	74	73	1,700	1,655	126	121	-4.0
Washington	278	274	2,030	2,005	564	549	-2.7
Wisconsin	1,257	1,275	2,040	2,070	2,564	2,639	2.9
24-State Total	8,834	8,993	1,984	2,012	17,530	18,091	3.2

<sup>-</sup> Represents zero.

# **Monthly Milk Per Cow - 24 Selected States**





<sup>&</sup>lt;sup>1</sup> Includes dry cows. Excludes heifers not yet fresh.

<sup>&</sup>lt;sup>2</sup> Excludes milk sucked by calves.

### Statistical Methodology

Survey Procedures: Primary data used to determine these estimates were obtained from a sample of producers. Individual States maintain a list of all known milk producers and information on the size of their herd. States use all known sources of producers to ensure that their lists are as complete as possible. Generally, all large producers and a sample of small producers are included in the survey. Questionnaires are mailed to producers near the end of the month to obtain data for the first day of the month. Additional reports are obtained by telephone, as needed, to supplement the mail response. Where feasible, States utilize state and federal administrative data to estimate milk production. This eliminates duplication of data gathering by different government agencies such as Agricultural Marketing Service (AMS) Dairy Market News. Indications of milk cow inventory are also obtained in the January Cattle Survey.

**Estimation Procedures**: Regional Field Offices prepare these estimates by using a combination of survey indications, historic trends, and any available administrative data. Individual State estimates are reviewed by the Agricultural Statistics Board for reasonableness.

Revision Policy: Milk production, milk per cow, and number of milk cows are subject to revision the following month after initial publication for monthly States or the following quarter for the quarterly States. Normally, administrative data from Federal Market Orders, State Departments of Agriculture, or other sources are the main basis for revisions. However, administrative data for all States may not be available in time for these revisions. Estimates are again subject to revisions in February each year based on additional administrative data. In the event that additional changes are necessary, a third revision is possible in February the following year. Estimates are again reviewed after data from the five-year Census of Agriculture are available. No revisions are made after that date.

**Reliability**: Since all operations with dairy animals are not included in the sample, survey estimates are subject to sampling variability. Survey results are also subject to non-sampling errors such as omissions, duplications, and mistakes in reporting, recording, and processing the data. The effects of these errors cannot be measured directly. They are minimized through rigid quality controls in the data collection process and through a careful review of all reported data for consistency and reasonableness.

To assist users in evaluating the reliability of the estimates in this report, the "Root Mean Square Error" is shown for selected items in the table below. The "Root Mean Square Error" is a statistical measure based on past performance and is computed using the differences between first and final estimates. The "Root Mean Square Error" for the 24 State milk production estimates over the past 24 months is 0.4 percent. This means that chances are 2 out of 3 that the final estimate will not be above or below the current estimate of 18.3 billion pounds by more than 0.4 percent. Chances are 9 out of 10 that the difference will not exceed 0.7 percent.

### **Reliability of Monthly Milk Production Estimates**

[Based on data for the past 24 months]

ltem	Root mean square error	90 percent confidence level	Difference between first and latest estimate					
			Averege	Smallest	Largest	Months		
	square error		Average			Below latest	Above latest	
	(percent)	(percent)	(1,000)	(1,000)	(1,000)	(number)	(number)	
Milk production	0.4	0.7	53	0	150	19	4	
All Milk cows	0.1	0.2	11	0	26	21	2	

#### **Information Contacts**

Listed below are the commodity specialists in the Livestock Branch of the National Agricultural Statistics Service to contact for additional information. E-mail inquiries may be sent to nass@usda.gov.

Travis Averill, Chief, Livestock Branch	(202) 692-0069
Scott Hollis, Head, Livestock Section	(202) 690-2424
Sherry Bertramsen – Livestock Slaughter	(202) 690-8632
Ryan Cowen – Cattle, Cattle on Feed	(202) 720-3040
Anthony Fischer – Hogs and Pigs	(202) 720-3106
Logan Hartley-Sanguinett – Sheep and Goats	(202) 690-3236
Mike Miller – Milk Production and Milk Cows	(202) 720-3278
Suzanne Richards – Dairy Products	(202) 720-4448

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For more information on NASS surveys and reports, call the NASS Agricultural Statistics Hotline at (800) 727-9540, 7:30 a.m. to 4:00 p.m. ET, or e-mail: <a href="mass@usda.gov">nass@usda.gov</a>.

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